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SEARCH CENTER 1600/2900

SEQUENCE LISTING

<110> Yeaman, Michael R.
Shen, Alexander J.

<120> ANTIMICROBIAL PEPTIDES AND DERIVED
METAREPTIDES

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<140> US 09/648,816
<141> 2000-08-25

<150> US 09/622,561
<151> 2000-08-18

<160> 111

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20 25 30
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<213> Oryctolagus cuniculus

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20 25 30
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35 40 45
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14
5/17/02

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<400> 14
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<210> 15
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B7
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits.

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<210> 21
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<400> 21
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<210> 24
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Lys Leu Ile Lys
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits.

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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Ala Ala Leu Tyr Lys Lys Ile Ile Lys Lys Leu Leu Glu Ser

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40

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Asn Leu Ile Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu
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B1
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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<210> 37

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<212> PRT

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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Arg Leu Gly

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<210> 39

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<223> Antimicrobicidal peptide designed in part upon
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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Leu Gly Cys

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<210> 41

<211> 18

<212> PRT

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microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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<210> 45
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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Leu Gly

<210> 48
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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1 5 10 15
Leu Tyr Lys Lys Lys

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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Leu Tyr Glu Glu Glu
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<210> 53
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 53
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1 5 10 15
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<210> 54
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1 5 10 15
Leu Tyr Lys Lys Lys
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<210> 57
<211> 21
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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1 5 10 15
Leu Phe Lys Lys Lys
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<210> 58

<211> 21

<212> PRT

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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1 5 10 15
Leu Trp Lys Lys Lys
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<210> 59

<211> 21

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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1 5 10 15
Asn Lys Lys Thr Ala
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<210> 60

<211> 20

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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Leu Tyr Lys Lys
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B1
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 62

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Leu Tyr Lys Lys
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<210> 63

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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1 5 10 15
Leu Tyr Lys Lys
20

<210> 66
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

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1 5 10 15
Leu Tyr Lys Lys
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proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

B1
<400> 67
Ala Thr Lys Lys Asn Gly Gly Lys Leu Cys Leu Asp Leu Gln Ala Ala
1 5 10 15
Leu Tyr Lys Lys
20

<210> 68
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 68
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala
1 5 10 15
Leu Tyr Lys Lys
20

<210> 69
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 69
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala
1 5 10 15
Leu Phe Lys Lys

20

<210> 70
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 70
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala
1 5 10 15
Leu Trp Lys Lys
20

B7
<210> 71
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 71
Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn
1 5 10 15
Lys Lys Thr Ala
20

<210> 72
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 72
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 73
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 73
Thr Arg Arg Asn Gly Arg Arg Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Arg Arg Arg
20

B1
<210> 74
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 74
Thr Lys Lys Asn Gly Lys Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 75
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 75
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Glu Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 76
<211> 20
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 76

Thr Glu Glu Asn Gly Arg Glu Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Glu Glu Glu
20

<210> 77

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 77

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Lys Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 78

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 78

Thr Lys Lys Asn Gly Glu Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 79

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

37

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 79
Thr Lys Lys Asn Gly Gly Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 80
<211> 20
<212> PRT
<213> Artificial Sequence

37
<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 80
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys Lys
20

<210> 81
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 81
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Phe Lys Lys Lys
20

<210> 82
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 82
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Trp Lys Lys Lys
20

<210> 83
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

B7
<400> 83
Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn
1 5 10 15
Lys Lys Thr Ala
20

<210> 84
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 84
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 85
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 85

Thr Arg Arg Asn Gly Arg Arg Leu Cys Leu Asp Leu Gln Ala Ala Leu
 1 5 10 15
 Tyr Arg Arg

<210> 86
 <211> 19
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Antimicrobicidal peptide designed in part upon
 microbiocidal domains from platelet microbial
 proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 86
 B7
 Thr Lys Lys Asn Gly Lys Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
 1 5 10 15
 Tyr Lys Lys

<210> 87
 <211> 19
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Antimicrobicidal peptide designed in part upon
 microbiocidal domains from platelet microbial
 proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 87
 Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Glu Leu Gln Ala Ala Leu
 1 5 10 15
 Tyr Lys Lys

<210> 88
 <211> 19
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Antimicrobicidal peptide designed in part upon
 microbiocidal domains from platelet microbial
 proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 88
 Thr Glu Glu Asn Gly Arg Glu Leu Cys Leu Asp Leu Gln Ala Ala Leu
 1 5 10 15
 Tyr Glu Glu

<210> 89
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 89
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Lys Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

b7
<210> 90
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 90
Thr Lys Lys Asn Gly Glu Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 91
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 91
Thr Lys Lys Asn Gly Gly Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

<210> 92
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 92
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala Leu
1 5 10 15
Tyr Lys Lys

B7

<210> 93
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 93
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Phe Lys Lys

<210> 94
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 94
Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu
1 5 10 15
Trp Lys Lys

<210> 95
<211> 19
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 95

Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn
 1 5 10 15
 Lys Lys Thr

<210> 96

<211> 22

<212> PRT

<213> Oryctolagus cuniculus

<400> 96

<210> 97

<211> 37

<212> PRT

<213> Oryctolagus cuniculus

<400> 97

<210> 98

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 98

Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Val Cys Val
 1 5 10 15
 Lys Thr Thr Ser Lys Val
 20

<210> 99
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 99
Ser Asp Asp Pro Lys Glu Ser Glu Gly Glu Leu Arg Cys Val Cys Val
1 5 10 15
Lys Thr Thr Ser Leu Val
20

37
<210> 100
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 100
Ser Asp Asp Pro Lys Glu Ser Glu Gly Glu Leu Arg Cys Val Cys Val
1 5 10 15
Lys Thr Thr Ser Lys Val
20

<210> 101
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 101
Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Cys Val Lys
1 5 10 15
Thr Thr Ser Lys Val
20

<210> 102

<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 102
Ser Asp Asp Pro Lys Glu Ser Glu Gly Glu Leu Arg Cys Cys Val Lys
1 5 10 15
Thr Thr Ser Leu Val
20

<210> 103
<211> 21
<212> PRT
<213> Artificial Sequence

P37
<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 103
Ser Asp Asp Pro Lys Glu Ser Glu Gly Glu Leu Arg Cys Cys Val Lys
1 5 10 15
Thr Thr Ser Lys Val
20

<210> 104
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 104
Ala Leu Tyr Lys Lys Phe Lys Lys Leu Leu Lys Ser Leu Lys Arg
1 5 10 15
Leu Gly Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Val
20 25 30
Cys Val Lys Thr Thr Ser Leu Val
35 40

<210> 105
<211> 35

<212> PRT
<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 105

Ala	Leu	Tyr	Lys	Arg	Leu	Phe	Lys	Lys	Leu	Lys	Lys	Phe	Ser	Asp	Asp
1					5				10					15	
Pro	Lys	Glu	Ser	Glu	Gly	Asp	Leu	His	Cys	Val	Cys	Val	Lys	Thr	Thr
					20				25					30	
Ser	Leu	Val													
															35

<210> 106

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

b7
<400> 106

Ala	Leu	Thr	Lys	Phe	Lys	Lys	Leu	Leu	Lys	Ser	Leu	Lys	Arg		
1					5				10				15		
Leu	Gly	Ser	Asp	Asp	Pro	Lys	Glu	Ser	Glu	Gly	Glu	Leu	Arg	Cys	Val
					20				25				30		
Cys	Val	Lys	Thr	Thr	Ser	Lys	Val								
															35
															40

<210> 107

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 107

Glu	Trp	Val	Gln	Lys	Tyr	Val	Ser	Asn	Leu	Glu	Leu	Ser	Ala	Trp	Lys
1					5				10					15	
Lys	Ile	Leu	Lys												
															20

<210> 108

<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 108

Ser Trp Val Gln Glu Tyr Val Tyr Asn Leu Glu Leu
1 5 10

<210> 109

<211> 16
<212> PRT
<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

β7
<400> 109

Ala Asn Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Val Arg
1 5 10 15

<210> 110

<211> 20
<212> PRT
<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial
proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

<400> 110

Ala Asn Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Val Arg
1 5 10 15
Lys Leu Ile Lys
20

<210> 111

<211> 18
<212> PRT
<213> Artificial Sequence

<220>

<223> Antimicrobicidal peptide designed in part upon
microbicidal domains from platelet microbial

proteins 1 and 2 (PMP-1 and PMP-2) from rabbits

B7

<400> 111

Lys Phe Asn Lys Ser Lys Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn
1 5 10 15
Pro Leu